

4. The connector described in claim 1, including a row of contacts mounted on said support, said contacts having pad-engaging parts for engaging contact pads of the smart card, said support having a rear end and said contacts have tails lying at said support rear end and having lower ends at a level for soldering to said circuit board traces, wherein:

5       said sheet metal cover has a front end with a pair of laterally spaced lower tabs lying at a level for soldering to a pair of said circuit board traces.

5. The connector described in claim 1 including a row of contacts having mount sections mounted on said support, pad-engaging parts for engaging contact pads of the smart card, and free ends, and wherein:

5       said support has upstanding boxes with slots that receive said contact free ends.

6. A smart card connector that includes an insulative support and a sheet metal cover that form a rearwardly-opening card-receiving cavity between them, the cover having a top wall lying primarily in a horizontal plane, first and second laterally-spaced vertically-extending side walls, and inward projections at lower ends of said side walls for lying under a bottom of the support to hold the cover on the support, wherein:

5       said support has a front wall with a top surface having a pair of laterally-spaced notches, and said cover top wall has a front end with a pair of partially downwardly-extending resilient projections that each lies in one of said notches;

10       said top surface of said support top wall having portions lying immediately forward of said notches, and said cover being slideable rearwardly onto said support until said projections each snaps into one of said notches to lock said cover onto said support.

7. The connector described in claim 6 wherein:

said support front wall has a cutout lying between said notches, so a tool can be inserted into said cutout to pry up the front end of the cover.

8. The connector described in claim 6 wherein said cavity is designed to receive an SD smart card that has a front lower surface with grooves and contact pads in the grooves, and to block receipt of an upside-down SD smart card, including:

5           a stop fixed to said support and projecting upward therefrom into said cavity, said stop being positioned to be received in one of said grooves.

9. The connector described in claim 6 including:

a card-detecting switch blade having a mounted end mounted on said support at a first side of said cavity, having a laterally projecting blade part that projects into the path of the card as it is inserted into the cavity, and having an end  
5           opposite the mounted part;

said cover first side wall has a tine with a free end lying adjacent to said switch blade end.

10. The connector described in claim 6 including a circuit board with traces, said support has a support rear end and said contacts form a laterally-extending row of tails lying at said support rear, said tails being soldered to traces of said circuit board, wherein:

5           said sheet metal cover has a front end with laterally opposite sides and said cover has a pair of tabs at said laterally opposite sides of said cover front end, said tabs each being soldered to a trace of said circuit board, whereby to obtain a balanced fastening of the connector to the circuit board.

11. A smart card connector and a circuit board with traces, wherein the

connector includes an insulative support and a sheet metal cover that form a rearwardly-opening card-receiving cavity between them, said connector also including a laterally-extending row of contacts mounted on said support and having pad-engaging parts that project into the cavity, said support having a support rear end and said contacts having a laterally-extending row of tails lying at said support rear end and soldered to circuit board traces thereat, wherein:

said sheet metal cover has a front end with laterally opposite sides and has a pair of tabs at said laterally opposite sides of said front end that are each soldered to traces of said circuit board, whereby to obtain a balanced fastening of the connector to the circuit board.

12. The connector described in claim 11 wherein said cover has a top wall lying primarily in a horizontal plane, first and second laterally-spaced vertically-extending side walls, and inward projections at lower ends of said side walls for lying under a bottom of the support to hold the cover on the support, wherein:

said support has a front wall with a top surface having a pair of laterally-spaced notches, and said cover top wall has a front end with a pair of partially downward resilient projections that each lies in one of said notches;

said top wall having top wall portions lying immediately forward at said notches, and said cover being slideable rearwardly onto said support until said projections each snaps into one of said notches to lock said cover onto said support.

13. A smart card connector for receiving a forwardly inserted SD smart card which has a front lower surface with grooves and contact pads in the grooves, wherein the connector prevents full forward insertion of an upside down SD smart card, the connector including a housing with walls forming a rearwardly-opening card-receiving cavity having top and bottom cavity horizontal walls and a plurality of laterally-spaced contacts with pad-engaging parts that project into the cavity but

that are deflectable close to one of said horizontal cavity walls, including:

a stop fixed to one of said cavity vertical walls and narrow enough and positioned to be received in one of said grooves.

14. The connector described in claim 13 wherein:

said stop is sufficiently laterally narrow and lies laterally close enough to a selected one of said contacts, so both said selected contact and said stop can fit into one of said grooves.

15. The connector described in claim 13 wherein said connector housing includes an insulative support and a sheet metal cover that form said cavity between them, said cover having a largely horizontal top wall and primarily vertical first and second opposite side walls, and

5 a card-detecting switch blade mounted on said support at a first side of said support, said switch blade having a laterally projecting blade part that projects into the path of the card as it is inserted into the cavity and an end that is deflected toward said cover first side, wherein:

10 said cover first side has a tine with a free end, said tine lying in the path of said switch blade end.

16. A smart card connector for mounting on a circuit board that has conductive traces, said connector including two connector parts that each can connect to the contact pads of different smart cards of different cross-sections, comprising:

5 an insulative support with first and second support parts each having respective first and second card-supporting surface regions, said support having longitudinally opposite front and rear ends and first and second laterally opposite sides;

first and second sets of contacts with pad engaging parts lying respectively

10 at said first and second card-supporting surface regions, each contact having a tail for soldering to one of said circuit board traces;

the tails of said second set of contacts lies in a laterally-extending row at one of said ends of said support, and the tails of said first set of contacts lie in two longitudinally-extending rows each at one of said sides of said support.

17. The connector described in claim 16 wherein:

said first and second support parts have respective first and second upper surfaces lying at different levels, with the first upper surface lying at a higher level;

5 a sheet metal cover lying over the second upper surface to hold down a card close to said second upper surface, said sheet metal cover having a pair of upstanding tabs forming side guides for a card to be read by said first connector part.